

***** STN Columbus *****

FILE 'HOME' ENTERED AT 11:23:21 ON 28 JUN 2006

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 11:23:37 ON 28 JUN 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s dicarboxylic acid

FILE 'MEDLINE'

5936 DICARBOXYLIC
1409582 ACID
L1 2758 DICARBOXYLIC ACID
(DICARBOXYLIC(W) ACID)

FILE 'SCISEARCH'

8261 DICARBOXYLIC
1134896 ACID
L2 4474 DICARBOXYLIC ACID
(DICARBOXYLIC(W) ACID)

FILE 'LIFESCI'

1312 "DICARBOXYLIC"
302444 "ACID"
L3 985 DICARBOXYLIC ACID
("DICARBOXYLIC" (W) "ACID")

FILE 'BIOTECHDS'

461 DICARBOXYLIC
139129 ACID
L4 356 DICARBOXYLIC ACID
(DICARBOXYLIC(W) ACID)

FILE 'BIOSIS'

4699 DICARBOXYLIC
1254290 ACID
L5 3102 DICARBOXYLIC ACID
(DICARBOXYLIC(W) ACID)

FILE 'EMBASE'

5206 "DICARBOXYLIC"
1396178 "ACID"
L6 4367 DICARBOXYLIC ACID
("DICARBOXYLIC" (W) "ACID")

FILE 'HCAPLUS'

62654 DICARBOXYLIC
4167777 ACID
L7 37669 DICARBOXYLIC ACID
(DICARBOXYLIC(W) ACID)

FILE 'NTIS'

284 DICARBOXYLIC
43990 ACID
L8 153 DICARBOXYLIC ACID
(DICARBOXYLIC(W) ACID)

FILE 'ESBIOBASE'
1623 DICARBOXYLIC
345424 ACID
L9 1146 DICARBOXYLIC ACID
(DICARBOXYLIC (W) ACID)

FILE 'BIOTECHNO'
930 DICARBOXYLIC
349810 ACID
L10 751 DICARBOXYLIC ACID
(DICARBOXYLIC (W) ACID)

FILE 'WPIDS'
38823 DICARBOXYLIC
953052 ACID
L11 31422 DICARBOXYLIC ACID
(DICARBOXYLIC (W) ACID)

TOTAL FOR ALL FILES
L12 87183 DICARBOXYLIC ACID

=> s 112(8a)gene/q
FILE 'MEDLINE'
L13 20 L1 (8A) GENE/Q

FILE 'SCISEARCH'
L14 16 L2 (8A) GENE/Q

FILE 'LIFESCI'
L15 16 L3 (8A) GENE/Q

FILE 'BIOTECHDS'
L16 31 L4 (8A) GENE/Q

FILE 'BIOSIS'
L17 24 L5 (8A) GENE/Q

FILE 'EMBASE'
L18 14 L6 (8A) GENE/Q

FILE 'HCAPLUS'
L19 85 L7 (8A) GENE/Q

FILE 'NTIS'
L20 0 L8 (8A) GENE/Q

FILE 'ESBIOBASE'
L21 11 L9 (8A) GENE/Q

FILE 'BIOTECHNO'
L22 11 L10 (8A) GENE/Q

FILE 'WPIDS'
L23 33 L11 (8A) GENE/Q

TOTAL FOR ALL FILES
L24 261 L12 (8A) GENE/Q

=> s 112(8a)microb?
FILE 'MEDLINE'
537420 MICROB?
L25 3 L1 (8A) MICROB?

FILE 'SCISEARCH'
141930 MICROB?

L26 2 L2 (8A)MICROB?

FILE 'LIFESCI'

56037 MICROB?

L27 4 L3 (8A)MICROB?

FILE 'BIOTECHDS'

21206 MICROB?

L28 9 L4 (8A)MICROB?

FILE 'BIOSIS'

463617 MICROB?

L29 8 L5 (8A)MICROB?

FILE 'EMBASE'

100700 MICROB?

L30 2 L6 (8A)MICROB?

FILE 'HCAPLUS'

429897 MICROB?

L31 58 L7 (8A)MICROB?

FILE 'NTIS'

12841 MICROB?

L32 1 L8 (8A)MICROB?

FILE 'ESBIOBASE'

262561 MICROB?

L33 0 L9 (8A)MICROB?

FILE 'BIOTECHNO'

38419 MICROB?

L34 2 L10 (8A)MICROB?

FILE 'WPIDS'

50024 MICROB?

L35 27 L11 (8A)MICROB?

TOTAL FOR ALL FILES

L36 116 L12 (8A) MICROB?

=> s (l24 or l36) not 2003-2006/py

FILE 'MEDLINE'

2108991 2003-2006/PY

(20030000-20069999/PY)

L37 18 (L13 OR L25) NOT 2003-2006/PY

FILE 'SCISEARCH'

3861676 2003-2006/PY

(20030000-20069999/PY)

L38 13 (L14 OR L26) NOT 2003-2006/PY

FILE 'LIFESCI'

351389 2003-2006/PY

L39 13 (L15 OR L27) NOT 2003-2006/PY

FILE 'BIOTECHDS'

90994 2003-2006/PY

L40 22 (L16 OR L28) NOT 2003-2006/PY

FILE 'BIOSIS'

1749059 2003-2006/PY

L41 26 (L17 OR L29) NOT 2003-2006/PY

FILE 'EMBASE'

1809766 2003-2006/PY
L42 13 (L18 OR L30) NOT 2003-2006/PY

FILE 'HCAPLUS'
4008365 2003-2006/PY
L43 95 (L19 OR L31) NOT 2003-2006/PY

FILE 'NTIS'
48776 2003-2006/PY
L44 1 (L20 OR L32) NOT 2003-2006/PY

FILE 'ESBIOBASE'
1064975 2003-2006/PY
L45 5 (L21 OR L33) NOT 2003-2006/PY

FILE 'BIOTECHNO'
122467 2003-2006/PY
L46 11 (L22 OR L34) NOT 2003-2006/PY

FILE 'WPIDS'
3640505 2003-2006/PY
L47 36 (L23 OR L35) NOT 2003-2006/PY

TOTAL FOR ALL FILES
L48 253 (L24 OR L36) NOT 2003-2006/PY

=> dup rem l48
PROCESSING COMPLETED FOR L48
L49 151 DUP REM L48 (102 DUPLICATES REMOVED)

=> d tot

L49 ANSWER 1 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Novel polynucleotide encoding CYTb5 protein, useful for producing the
protein and for increasing the production of dicarboxylic acid;
recombinant enzyme gene production, vector expression in host cell,
and polymerase chain reaction useful for the production of
dicarboxylic acid
AU CRAFT D L; MADDURI K M; LOPER J C
AN 2002-12595 BIOTECHDS
PI WO 2002008413 31 Jan 2002

L49 ANSWER 2 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing dodecyl-1,12-bicarboxylic acid from n-tetradecane comprises
microbial synchronous fermentation;
C-acid preparation by yeast synchronous fermentation
AU CHEN Y; HAO X
AN 2003-25933 BIOTECHDS
PI CN 1369564 18 Sep 2002

L49 ANSWER 3 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI In vivo temporal sequence of rat striatal glutamate, aspartate and
dopamine efflux during apomorphine, nomifensine, NMDA and PDC in situ
administration
SO Neuropharmacology (2002), 43(5), 825-835
CODEN: NEPHBW; ISSN: 0028-3908
AU Bert, L.; Parrot, S.; Robert, F.; Desvignes, C.; Denoroy, L.;
Suaud-Chagny, M.-F.; Renaud, B.
AN 2002:785924 HCAPLUS
DN 138:297517

L49 ANSWER 4 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Identification and characterization of the genes involved in the
degradation of the dicarboxylic acid, pimelate, in

Rhodopseudomonas palustris.

SO Abstracts of the General Meeting of the American Society for Microbiology,
(2002) Vol. 102, pp. 384. print.
Meeting Info.: 102nd General Meeting of the American Society for
Microbiology. Salt Lake City, UT, USA. May 19-23, 2002. American Society
for Microbiology.
ISSN: 1060-2011.

AU Harrison, F. H. [Reprint author]; Harwood, C. S. [Reprint author]
AN 2002:616953 BIOSIS

L49 ANSWER 5 OF 151 MEDLINE on STN DUPLICATE 1
TI A study of the effects on the symbiotic nitrogen fixation of Sinorhizobium
fredii with the introduction of dctABD and nifA genes.

SO Yi chuan xue bao = Acta genetica Sinica, (2002 Feb) Vol. 29, No. 2, pp.
181-8.
Journal code: 7900784. ISSN: 0379-4172.

AU Li You-Guo; Zhou Jun-Chu
AN 2002170464 MEDLINE

L49 ANSWER 6 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New human dihydropyridine dicarboxylic acid dehydrogenase-18 and encoded
polynucleotide, applicable in diagnosis and treatment of malignant tumor,
hemopathy, human immunodeficiency virus infection, immunological diseases
and inflammations;
vector expression in host cell for disease therapy, diagnosis and gene
therapy

AU Mao Y; Xie Y
AN 2002-01743 BIOTECHDS
PI WO 2001070994 27 Sep 2001

L49 ANSWER 7 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Novel isolated nucleic acid encoding cytochrome P450 and NADPH reductase
enzymes of omega-hydroxylase complex of Candida tropicalis, useful for
increasing production of dicarboxylic acids;
cytochrome-P450 and NADHP-reductase CYP52A2A protein production by
vector expression in host cell for dicarboxylic acid production

AU WILSON C R; CRAFT D L; EIRICH L D; ESHOO M; MADDURI K M; CORNETT C A;
BRENNER A A; TANG M; LOPER J C; GLEESON M
AN 2002-06912 BIOTECHDS
PI US 6331420 18 Dec 2001

L49 ANSWER 8 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Method for detecting mismatched base pairs such as guanine-guanine in DNA
and RNA;
mimetic base preparation and immobilization for nucleic acid mutation
detection

AU Nakatani K; Saito I; Sando S
AN 2001-13391 BIOTECHDS
PI WO 2001038571 31 May 2001

L49 ANSWER 9 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Method using a mono- or diester of a α,ω -dicarboxylic acid for
treatment of dermatological disorders

SO U.S., 12 pp., Cont.-in-part of Appl. No. PCT/IB97/01428.
CODEN: USXXAM

IN Tamarkin, Dov

AN 2001:73543 HCAPLUS
DN 134:125967

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6180669	B1	20010130	US 1999-286236	19990405
	WO 9820834	A2	19980522	WO 1997-IB1428	19971112
	WO 9820834	A3	19981126		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC,

LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
 RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
 GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
 GN, ML, MR, NE, SN, TD, TG

- L49 ANSWER 10 OF 151 MEDLINE on STN DUPLICATE 4
 TI Cloning and genetic characterization of dca genes required for
 beta-oxidation of straight-chain dicarboxylic acids in *Acinetobacter* sp.
 strain ADP1.
 SO Applied and environmental microbiology, (2001 Oct) Vol. 67, No. 10, pp.
 4817-27.
 Journal code: 7605801. ISSN: 0099-2240.
 AU Parke D; Garcia M A; Ornston L N
 AN 2001524029 MEDLINE
- L49 ANSWER 11 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Repression of fatty-acyl-coA-oxidase-encoding gene expression is not
 necessarily a determinant of high-level production of dicarboxylic acids
 in industrial dicarboxylic-acid-producing *Candida tropicalis*;
 dicarboxylic acid production
 SO Appl.Microbiol.Biotechnol.; (2001) 56, 3-4, 478-85
 CODEN: EJABDD ISSN: 0175-7598
 AU Hara A; Ueda M; Matsui T; Arie M; Saeki H; Matsuda H; Furuhashi K; Kanai
 T; *Tanaka A
 AN 2001-11264 BIOTECHDS
- L49 ANSWER 12 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI An improved method for preparing dimethyl cyclohepta-1,3,5-triene-3,4-
 dicarboxylate
 SO Synthetic Communications (2001), 31(3), 387-393
 CODEN: SYNCAV; ISSN: 0039-7911
 AU Oda, Mitsunori; Hayashi, Shuichi; Zuo, Shengli; Miyatake, Ryuta; Kuroda,
 Shigeyasu; Morita, Noboru; Asao, Toyonobu
 AN 2001:455235 HCAPLUS
 DN 135:210764
- L49 ANSWER 13 OF 151 MEDLINE on STN DUPLICATE 5
 TI Novel and convenient methods for *Candida tropicalis* gene disruption using
 a mutated hygromycin B resistance gene.
 SO Archives of microbiology, (2001 Nov) Vol. 176, No. 5, pp. 364-9.
 Journal code: 0410427. ISSN: 0302-8933.
 AU Hara A; Arie M; Kanai T; Matsui T; Matsuda H; Furuhashi K; Ueda M; Tanaka
 A
 AN 2001648937 MEDLINE
- L49 ANSWER 14 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI Cloning and mutational analysis of a gene, *dctA*, encoding a
 dicarboxylic acid transport protein from a biological
 control bacterium *Pseudomonas chlororaphis* O6.
 SO Phytopathology, (June, 2001) Vol. 91, No. 6 Supplement, pp. S48-S49.
 print.
 Meeting Info.: Joint Meeting of the American Phytopathological Society,
 the Mycological Society of America, and the Society of Nematologists. Salt
 Lake City, Utah, USA. August 25-29, 2001. American Phytopathological
 Society; Mycological Society of America; Society of Nematologists.
 CODEN: PHYTAJ. ISSN: 0031-949X.
 AU Kim, Y. C. [Reprint author]; Anderson, A. J.
 AN 2001:404190 BIOSIS
- L49 ANSWER 15 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Detection of turning time from microbe growth to fermentation in
 production of long-chain dicarboxylic acid

SO Shiyou Lianzhi Yu Huagong (2001), 32(8), 19-21
 CODEN: SLYHEE; ISSN: 1005-2399
 AU Dong, Mingyou; Yan, Yimin; Yang, Dong; Yuan, Chunfu
 AN 2001:719322 HCAPLUS
 DN 136:215496

L49 ANSWER 16 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Spontaneous mutations affecting transcriptional regulation by
 protocatechuate in Acinetobacter
 SO FEMS Microbiology Letters (2001), 201(1), 15-19
 CODEN: FMLED7; ISSN: 0378-1097
 AU D'Argenio, D. A.; Segura, A.; Bunz, P. V.; Ornston, L. N.
 AN 2001:483537 HCAPLUS
 DN 136:178731

L49 ANSWER 17 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Hygromycin-tolerant gene with CTG codon modified into leucine codon,
 applicable as selection marker in yeast of Candida genus providing
 transformants for efficient production of e.g. dicarboxylic acid;
 plasmid pUCARS-HGM-mediated gene transfer and expression in Candida
 tropicalis
 AU Tanaka A; Ueda M; Hara A; Misawa A
 AN 2001-04352 BIOTECHDS
 PI WO 2000075307 14 Dec 2000

L49 ANSWER 18 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI New alpha-hydroxy-gamma-carboxymuconic-acid-eta-semialdehyde-
 dehydrogenase for industrial production of 2-pyrone-4,6-dicarboxylic
 acid;
 Sphingomonas sp. recombinant enzyme production via vector plasmid
 pCHMS01-mediated gene transfer and expression in Escherichia coli
 AU Masai E; Fukuda M; Katayama Y; Nishikawa S; Hotta Y
 AN 2000-05173 BIOTECHDS
 PI WO 2000004134 27 Jan 2000

L49 ANSWER 19 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Process for producing alpha, omega-long chain dicarboxylic acid by using
 microorganism fermentation
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.
 CODEN: CNXXEV
 IN Liu, Shuchen; Li, Shulan; Fang, Xiangchen; Dong, Mingyou
 AN 2001:36231 HCAPLUS
 DN 134:70417

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1257126	A	20000621	CN 1998-121084	19981216
	CN 1067725	B	20010627		

L49 ANSWER 20 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI New DNA encoding glutamate-malate transporter, useful for producing
 transgenic plants with altered nitrogen metabolism, particularly increased
 protein content.
 PI WO 2000031281 A2 20000602 (200035)* GE 40 C12N015-82
 RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 W: AU CA IL JP RU US
 AU 2000015554 A 20000613 (200043) C12N015-82
 DE 19853778 C1 20000921 (200047) C12N015-29
 EP 1135510 A2 20010926 (200157) GE C12N015-82
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
 IN DRESSSEN, U; FLUEGGE, U; WEBER, A; WESTHOFF, P

L49 ANSWER 21 OF 151 MEDLINE on STN DUPLICATE 6
 TI Improvement of nitrogen fixation efficiency and plasmid stability in
 Bradyrhizobium japonicum by the introduction of dctABD and parCBA/DE
 genes.

SO Yi chuan xue bao = Acta genetica Sinica, (2000) Vol. 27, No. 8, pp.
742-50.
Journal code: 7900784. ISSN: 0379-4172.
AU Li Y G; Li J; Liu M Q; Zhou J C
AN 2000505618 MEDLINE

L49 ANSWER 22 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Fermentation of decane 1,10-dicarboxylic acid (DC12)
SO Shengwu Gongcheng Xuebao (2000), 16(2), 198-202
CODEN: SGXUED; ISSN: 1000-3061
AU Ren, Gang; Chen, Yuang-Tong
AN 2000:304920 HCAPLUS
DN 133:221652

L49 ANSWER 23 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Introduction of dctABD genes into Sinorhizobium fredii and its effect on
symbiotic nitrogen fixation efficiency
SO Gaojishu Tongxun (2000), 10(5), 1-7
CODEN: GTONE8; ISSN: 1002-0470
AU Li, Youguo; Li, Jie; Liu, Moqing; Zhou, Minjiang; Zhou, Junchu
AN 2000:430399 HCAPLUS
DN 134:39597

L49 ANSWER 24 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI The gene for mouse metabotropic glutamate receptor mGluR5 associated with
sensitivity to CNS depressants and its use in identification of new
depressants
SO PCT Int. Appl., 129 pp.
CODEN: PIXXD2
IN Johnson, Thomas E.; Sikela, James M.; Simpson, Victoria J.; Rikke, Brad A.
AN 1999:495390 HCAPLUS
DN 131:125921

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9938975	A2	19990805	WO 1999-US2033	19990129
	WO 9938975	A3	19990923		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU	9924869	A1	19990816	AU 1999-24869	19990129

L49 ANSWER 25 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Cloning and cDNA sequence of human excitatory amino acid transporter
SO U.S., 40 pp., Cont.-in-part of U.S. 5,658,782.
CODEN: USXXAM
IN Amara, Susan G.; Arriza, Jeffrey L.; Eliasof, Scott; Kavanaugh, Michael P.
AN 1999:193832 HCAPLUS
DN 130:219172

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5882926	A	19990316	US 1997-948569	19971010
	US 5658782	A	19970819	US 1993-140729	19931020
	US 5989825	A	19991123	US 1998-188469	19981109
	US 6284505	B1	20010904	US 1999-397238	19990916

L49 ANSWER 26 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Timber preservation agent preventing decay of timber from microbes
- contains metal salt of unsaturated dicarboxylic acid
and ammonia or water soluble amine.

PI JP 11189504 A 19990713 (200005)* 4 A01N037-06
 L49 ANSWER 27 OF 151 MEDLINE on STN DUPLICATE 7
 TI Studies on microbial production of undecane 1, 11-dicarboxylic acid from N-tridecane.
 SO Wei sheng wu xue bao = Acta microbiologica Sinica, (1999 Jun) Vol. 39, No. 3, pp. 279-81.
 Journal code: 21610860R. ISSN: 0001-6209.
 AU Chen Y; Pang Y; Hao X
 AN 2003046667 MEDLINE
 L49 ANSWER 28 OF 151 MEDLINE on STN DUPLICATE 8
 TI Genetic and biochemical characterization of a 2-pyrone-4, 6-dicarboxylic acid hydrolase involved in the protocatechuate 4, 5-cleavage pathway of *Sphingomonas paucimobilis* SYK-6.
 SO Journal of bacteriology, (1999 Jan) Vol. 181, No. 1, pp. 55-62.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Masai E; Shinohara S; Hara H; Nishikawa S; Katayama Y; Fukuda M
 AN 1999084939 MEDLINE
 L49 ANSWER 29 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Increasing the production of long-chain dicarboxylic acid by metabolic network analysis
 SO Nanjing Huagong Daxue Xuebao (1999), 21(3), 6-9
 CODEN: NHDXFB
 AU Lin, Rongsheng; Zhu, Tao; Cao, Zhu'an
 AN 1999:485681 HCAPLUS
 DN 131:285476
 L49 ANSWER 30 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI New renal organic anion transporter protein; vector-mediated gene transfer and expression in host cell, DNA probe and antibody, used for nephrotoxicity drug screening
 AU Endou H; Kanai Y; Hosoyamada M
 AN 1999-02096 BIOTECHDS
 PI WO 9853064 26 Nov 1998
 L49 ANSWER 31 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI New xantioxidase inhibitors - based on microbiological 1,6-diamino-dibenzofurane-2,7-dicarboxylic acid, its salts and esters.
 PI HU 9700652 A1 19981028 (199850)* 1 C07D307-91
 IN AMBRUS, G; HORVATH, G; JEKKELE, A; KONYA, A; MAKK, N; SALAT, J; SZABO, I M; SZELECZKY, Z; TOTH, G
 L49 ANSWER 32 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Preparation of fragrances - production of dicarboxylic acids by fermentation and their use for synthesis of macrocyclic musk compounds
 SO Kagaku Kogaku (1998), 62(10), 565-567
 CODEN: KKGKA4; ISSN: 0375-9253
 AU Furuhashi, Keizo
 AN 1998:647502 HCAPLUS
 DN 129:301700
 L49 ANSWER 33 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Synthesis of monoesters of N-protected α -aminodicarboxylic acids via the microbial protease-catalyzed regioselective hydrolysis of their diesters
 SO Biotechnology Techniques (1998), 12(6), 431-434
 CODEN: BTECE6; ISSN: 0951-208X
 AU Miyazawa, Toshifumi; Ogura, Motoji; Nakajo, Shin'ichi; Yamada, Takashi
 AN 1998:537332 HCAPLUS
 DN 129:245446
 L49 ANSWER 34 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI HPLC analysis of quinolinic acid, a NAD biosynthesis intermediate, after
fluorescence derivatization in an aqueous matrix
SO Microbios (1998), 94(379), 167-181
CODEN: MCBIA7; ISSN: 0026-2633
AU Xia, Chunsheng; Dang, Yuhong; Brown, Olen R.
AN 1998:688093 HCAPLUS
DN 130:49338

L49 ANSWER 35 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Method for producing undecane-1,11-bicarboxylic acid by microorganism
fermenting synchronously;
involving Candida tropicalis culture medium optimization
AU CHEN Y; PANG Y; HAO X
AN 2003-23207 BIOTECHDS
PI CN 1162644 22 Oct 1997

L49 ANSWER 36 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Ceramic filter in oil-water two phase microbial reaction
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
IN Kobayashi, Toshihito; Kamimura, Naohisa
AN 1997:172382 HCAPLUS
DN 126:170522

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09009981	A2	19970114	JP 1995-183265	19950628

L49 ANSWER 37 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Microbial transformation of dibenzothiophene and 4,6-
dimethyldibenzothiophene
SO Microbiology (Moscow) (Translation of Mikrobiologiya) (1997), 66(4),
402-407
CODEN: MIBLAO; ISSN: 0026-2617
AU Finkel'stein, Z. I.; Baskunov, B. P.; Vavilova, L. N.; Golovleva, L. A.
AN 1997:544437 HCAPLUS
DN 127:259879

L49 ANSWER 38 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Production of long chain alpha, omega-dicarboxylic acid
by synchronous fermentation of microbe;
Candida tropicalis co-culture
AU Chen Y; Hao X
AN 1998-02906 BIOTECHDS
PI CN 1130685 11 Sep 1996

L49 ANSWER 39 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Molecular cloning and functional expression of a sodium-dicarboxylate
cotransporter from human kidney
SO American Journal of Physiology (1996), 270(4, Pt. 2), F642-F648
CODEN: AJPHAP; ISSN: 0002-9513
AU Pajor, Ana M.
AN 1996:266764 HCAPLUS
DN 124:336127

L49 ANSWER 40 OF 151 MEDLINE on STN DUPLICATE 10
TI Intraseptal administration of (1S,3R)-1-aminocyclopentane-1,3-
dicarboxylic acid induces immediate early gene
expression in lateral septal neurons.
SO Brain research, (1996 Feb 19) Vol. 709, No. 2, pp. 205-14.
Journal code: 0045503. ISSN: 0006-8993.
AU Kaatz K W; Albin R L
AN 96430632 MEDLINE

L49 ANSWER 41 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Modular structure of the Rhizobium meliloti DctB protein

SO FEMS Microbiology Letters (1996), 139(1), 19-25
CODEN: FMLED7; ISSN: 0378-1097
AU Giblin, Linda; Archdeacon, John; O'Gara, Fergal
AN 1996:347788 HCAPLUS
DN 125:29062

L49 ANSWER 42 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Increasing occupancy of plant nodules;
Rhizobium meliloti and Bradyrhizobium japonicum strain improvement,
for application in improved nitrogen-fixation
AU Ronson C W; Kwiatkowski R W
AN 1995-10913 BIOTECHDS
PI US 5427785 27 Jun 1995

L49 ANSWER 43 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI N-Acylpiperidine tachykinin antagonists
SO PCT Int. Appl., 91 pp.
CODEN: PIXXD2
IN MacCoss, Malcolm; Mills, Sander G.
AN 1995:994334 HCAPLUS
DN 124:55803

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9522525	A1	19950824	WO 1995-US1800	19950213
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5610165	A	19970311	US 1994-198025	19940217
	AU 9518429	A1	19950904	AU 1995-18429	19950213

L49 ANSWER 44 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Optically active di carboxylic acid production - comprises reacting unsatd. di carboxylic acid with Arthrobacter genus microbes..
PI JP 07031486 A 19950203 (199515)* 4 C12P007-46

L49 ANSWER 45 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Protein crosslinking studies suggest that Rhizobium meliloti C4-dicarboxylic acid transport protein D, a σ 54-dependent transcriptional activator, interacts with σ 54 and the β subunit of RNA polymerase
SO Proceedings of the National Academy of Sciences of the United States of America (1995), 92(21), 9702-6
CODEN: PNASA6; ISSN: 0027-8424
AU Lee, Joon H.; Hoover, Timothy R.
AN 1995:874523 HCAPLUS
DN 123:278002

L49 ANSWER 46 OF 151 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 12
TI PHOTOREACTIVE CHOLESTERIC POLYESTERS DERIVED FROM 4-CARBOXYCINNAMIC ACID AND NOVEL CHIRAL SPACERS
SO MACROMOLECULES, (17 JUL 1995) Vol. 28, No. 15, pp. 5306-5311.
ISSN: 0024-9297.
AU STUMPE J (Reprint); ZIEGLER A; BERGHAHN M; KRICHELDORF H R
AN 1995:491117 SCISEARCH

L49 ANSWER 47 OF 151 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 13
TI Studies on microbial production of tridecane 1,13-dicarboxylic acid (DC sub(15)) from n-pentadecane (nc sub(15))
SO ACTA MICROBIOL. SIN., (1995) vol. 35, no. 6, pp. 433-437.
ISSN: 0001-6209.

AU Yuantong, Chen; Xiuzhen, Hao; Yuechuan, Pang
AN 96:118920 LIFESCI

L49 ANSWER 48 OF 151 MEDLINE on STN DUPLICATE 14
TI Rhizobium leguminosarum nodulation gene (nod) expression is lowered by an allele-specific mutation in the dicarboxylate transport gene dctB.
SO Microbiology (Reading, England), (1995 Jan) Vol. 141 (Pt 1), pp. 103-11. Journal code: 9430468. ISSN: 1350-0872.
AU Mavridou A; Barny M A; Poole P; Plaskitt K; Davies A E; Johnston A W; Downie J A
AN 95202068 MEDLINE

L49 ANSWER 49 OF 151 MEDLINE on STN DUPLICATE 15
TI Signal transduction in the Rhizobium meliloti dicarboxylic acid transport system.
SO FEMS microbiology letters, (1995 Feb 1) Vol. 126, No. 1, pp. 25-30. Journal code: 7705721. ISSN: 0378-1097.
AU Giblin L; Boesten B; Turk S; Hooykaas P; O'Gara F
AN 95203660 MEDLINE

L49 ANSWER 50 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation and properties of thermoplastic elastomeric polyamide-polyester-polyoxyalkylenes
SO Eur. Pat. Appl., 28 pp. CODEN: EPXXDW
IN Kirikihira, Isamu; Yamakawa, Hiroshi; Kubo, Yuji
AN 1995:520290 HCAPLUS
DN 122:266362

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	EP 608976	A1	19940803	EP 1994-300121	19940107
	EP 608976	B1	19971112		
	R: DE, FR, GB, IT, NL				
	JP 06207007	A2	19940726	JP 1993-2055	19930108
	JP 3324170	B2	20020917		
	JP 06207005	A2	19940726	JP 1993-2056	19930108
	JP 3324171	B2	20020917		
	JP 06279583	A2	19941004	JP 1993-66716	19930325
	JP 3257127	B2	20020218		
	US 5811495	A	19980922	US 1996-695517	19960812

L49 ANSWER 51 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Method for preparing long chain α , ω - dicarboxylic acid via microbiological fermentation in normal alkane
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp. CODEN: CNXXEV
IN Chen, Yuantong; Liu, Ting; Pang, Yuechuan
AN 1995:380442 HCAPLUS
DN 122:131185

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	CN 1092108	A	19940914	CN 1994-100594	19940128
	CN 1030146	B	19951025		
	WO 9521145	A2	19950810	WO 1995-IB93	19950127
	WO 9521145	A3	19950824		
	W: AM, AU, BB, BG, BR, BY, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN				
	RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9515446	A1	19950821	AU 1995-15446	19950127

L49 ANSWER 52 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Fertiliser for improving the growth of rice seedlings.

PI CN 1081433 A 19940202 (199521)* C05G003-00
IN SONG, S; WANG, Y; WU, Y

L49 ANSWER 53 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Alfalfa yield response to inoculation with recombinant strains of
Rhizobium meliloti with an extra copy of dctABD and/or modified nifA
expression.
SO Applied and Environmental Microbiology, (1994) Vol. 60, No. 10, pp.
3815-3832.
CODEN: AEMIDF. ISSN: 0099-2240.
AU Bosworth, Andrew H.; Williams, Mark K.; Albrecht, Kenneth A.; Kwiatkowski,
Robert; Beynon, Jim; Hankinson, Thomas R.; Ronson, Clive W.; Cannon,
Frank; Wacek, Thomas J.; Triplett, Eric W. [Reprint author]
AN 1994:526513 BIOSIS

L49 ANSWER 54 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Analysis of the Escherichia coli genome. V. DNA sequence of the region
from 76.0 to 81.5 minutes
SO Nucleic Acids Research (1994), 22(13), 2576-86
CODEN: NARHAD; ISSN: 0305-1048
AU Sofia, Heidi J.; Burland, Valerie; Daniels, Donna L.; Plunkett, Guy, III;
Blattner, Frederick R.
AN 1994:694082 HCAPLUS
DN 121:294082

L49 ANSWER 55 OF 151 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 16
TI Studies on microbial production of tetradecane 1,14-
dicarboxylic acid (DC sub(16)) from hexadecane (nC
sub(16))
SO ACTA MICROBIOL. SIN., (1994) vol. 34, no. 4, pp. 301-304.
ISSN: 0001-6209.
AU Yuantong, Chen; Xiuzhen, Hao
AN 96:21360 LIFESCI

L49 ANSWER 56 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Liquid-crystalline polyester-amides with good toughness and manufacture
thereof
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
IN Shirahama, Rie; Kidai, Osamu; Sakata, Yasuyuki
AN 1993:604140 HCAPLUS
DN 119:204140

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 05043685	A2	19930223	JP 1991-208315	19910820
	JP 3092226	B2	20000925		

L49 ANSWER 57 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of 6-hydroxy pyridines or pyrazines by microbial hydroxylation
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
IN Yasuda, Mari; Ohkishi, Haruyuki; Sato, Katsutoshi; Morimoto, Yuuki;
Nagasawa, Toru
AN 1993:648182 HCAPLUS
DN 119:248182

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	EP 558022	A2	19930901	EP 1993-103038	19930226
	EP 558022	A3	19940803		
	EP 558022	B1	19960612		
	R: CH, DE, FR, GB, IT, LI				
	JP 05304972	A2	19931119	JP 1992-77461	19920331
	JP 3275353	B2	20020415		
	CN 1079991	A	19931229	CN 1993-103482	19930226

CN 1051803	B	20000426		
US 5436145	A	19950725	US 1994-246570	19940520

L49 ANSWER 58 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Negative regulation of σ 54-dependent *dctA* expression by the
 transcriptional activator DctD
 SO Journal of Bacteriology (1993), 175(9), 2674-81
 CODEN: JOBAAAY; ISSN: 0021-9193
 AU Labes, Monika; Finan, Turlough M.
 AN 1993:422189 HCAPLUS
 DN 119:22189

L49 ANSWER 59 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Symbiotic nitrogen fixation by a *nifA* deletion mutant of *Rhizobium*
meliloti: The role of an unusual *ntrC* allele
 SO Journal of Bacteriology (1993), 175(9), 2662-73
 CODEN: JOBAAAY; ISSN: 0021-9193
 AU Labes, Monika; Rastogi, Vipin; Watson, Robert; Finan, Turlough M.
 AN 1993:422188 HCAPLUS
 DN 119:22188

L49 ANSWER 60 OF 151 MEDLINE on STN DUPLICATE 17
 TI Relationships between C4 dicarboxylic acid transport and chemotaxis in
Rhizobium meliloti.
 SO Journal of bacteriology, (1993 Apr) Vol. 175, No. 8, pp. 2284-91.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Robinson J B; Bauer W D
 AN 93224450 MEDLINE

L49 ANSWER 61 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Characterization of environmental regulators of *Bordetella pertussis*
 SO Infection and Immunity (1993), 61(3), 807-15
 CODEN: INFIBR; ISSN: 0019-9567
 AU Melton, Angela R.; Weiss, Alison Ann
 AN 1993:229897 HCAPLUS
 DN 118:229897

L49 ANSWER 62 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Construction and properties of *Escherichia coli* mutants defective in two
 genes encoding homologous membrane proteins with putative roles in
 anaerobic C4-dicarboxylic acid transport
 SO Biochemical Society Transactions (1993), 21(4), 342S
 CODEN: BCSTB5; ISSN: 0300-5127
 AU Six, Stephan; Andrews, Simon C.; Roberts, Ruth E.; Uden, Gottfried;
 Guest, John R.
 AN 1993:618918 HCAPLUS
 DN 119:218918

L49 ANSWER 63 OF 151 MEDLINE on STN DUPLICATE 18
 TI The *Escherichia coli* cAMP receptor protein (CRP) represses the *Rhizobium*
meliloti *dctA* promoter in a cAMP-dependent fashion.
 SO Molecular microbiology, (1993 Apr) Vol. 8, No. 2, pp. 253-9.
 Journal code: 8712028. ISSN: 0950-382X.
 AU Wang Y P; Giblin L; Boesten B; O'Gara F
 AN 93302501 MEDLINE

L49 ANSWER 64 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Manufacture of benzenedicarboxylic acid monoester (derivatives) with
 microorganisms or their preparations from diesters
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 IN Yanai, Takaaki; Tsunekawa, Hiroshi; Okamura, Kazuhiko; Okamoto, Rokuro
 AN 1992:590295 HCAPLUS
 DN 117:190295

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 04158789	A2	19920601	JP 1990-285619	19901023
	JP 2946472	B2	19990906		

L49 ANSWER 65 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Prepn of 2-hydroxy benzene-1,4-di carboxylic acid - by subjecting new
1,2-di hydroxy cyclo hexa-3,5-diene-1,4-di carboxylic acid to acid or base
catalysed dehydration.
PI US 5124479 A 19920623 (199228)* 3 C07C065-01
IN HAGEDORN, S; RUPPEN, M E

L49 ANSWER 66 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI KS-505A A HIGHLY POTENT AND SELECTIVE INHIBITOR OF BRAIN CALCIUM
CALMODULIN-DEPENDENT CYCLIC NUCLEOTIDE PHOSPHODIESTERASE.
SO FASEB Journal, (1992) Vol. 6, No. 5, pp. A1846.
Meeting Info.: 1992 MEETING OF THE FEDERATION OF AMERICAN SOCIETIES FOR
EXPERIMENTAL BIOLOGY (FASEB), PART II, ANAHEIM, CALIFORNIA, USA, APRIL
5-9, 1992. FASEB (FED AM SOC EXP BIOL) J.
CODEN: FAJOEC. ISSN: 0892-6638.
AU KASE H [Reprint author]; YOSHIZAKI R; ICHIMURA M; OSAWA K; NAKANISHI S;
MATSUDA Y
AN 1992:314284 BIOSIS

L49 ANSWER 67 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Microbial production of pentadecane 1,15-dicarboxylic
acid (DC17) from heptadecane (nC17)
SO Weishengwu Xuebao (1992), 31(6), 454-9
CODEN: WSHPA8; ISSN: 0001-6209
AU Chen, Yuantong; Pang, Yuechuan; Hao, Xiuzhen; Lu, Aiyan
AN 1992:254035 HCAPLUS
DN 116:254035

L49 ANSWER 68 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Method for increasing omega-hydroxylase activity;
cytochrome-P450-ALK1, cytochrome-P450-ALK2 and/or cytochrome-P450-RED
gene cloning in Candida tropicalis via gene disruption;
gene dosage effect; alpha,omega-dicarboxylic
acid production
AN 1992-00388 BIOTECHDS
PI WO 9114781 3 Oct 1991

L49 ANSWER 69 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI DNA encoding genes which complement dicarboxylic
acid transport;
useful in bacterial hosts e.g. Rhizobium meliloti, Rhizobium
leguminosarum and Brevibacterium japonicum for increasing
nitrogen-fixation of legume; plasmid pRK290:4:46
AN 1992-03853 BIOTECHDS
PI US 5077209 31 Dec 1991

L49 ANSWER 70 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Fatty acid oxidation-deficient Candida tropicalis
SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2
IN Picataggio, Stephen; Deanda, Kristine; Eirich, L. Dudley
AN 1991:425930 HCAPLUS
DN 115:25930

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9106660	A1	19910516	WO 1990-US6427	19901106
	W: AU, CA, FI, JP, KR, SU				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	US 5254466	A	19931019	US 1989-432091	19891106
	ZA 9008653	A	19910828	ZA 1990-8653	19901029

CA 2072977	AA	19910507	CA 1990-2072977	19901106
AU 9067414	A1	19910531	AU 1990-67414	19901106
EP 499622	A1	19920826	EP 1990-917626	19901106
EP 499622	B1	19940831		
R: DE, FR, GB				
JP 05501501	T2	19930325	JP 1991-500500	19901106
JP 3023984	B2	20000321		
JP 3023984	B2	20000321	JP 1990-500500	19901106

- L49 ANSWER 71 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI New pseudomonas strain microbe - used to prepare 2,6-naphthalene di
 carboxylic acid from 2,6-di methyl-naphthalene.
 PI JP 03080091 A 19910404 (199120)*
- L49 ANSWER 72 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Purification, characterization and nucleotide sequence of the periplasmic
 C4-dicarboxylate-binding protein (DctP) from Rhodobacter capsulatus
 SO Molecular Microbiology (1991), 5(12), 3055-62
 CODEN: MOMIEE; ISSN: 0950-382X
 AU Shaw, J. G.; Hamblin, M. J.; Kelly, D. J.
 AN 1993:119099 HCAPLUS
 DN 118:119099
- L49 ANSWER 73 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI CHEMOTAXIS OF BRADYRHIZOBIUM-JAPONICUM TO SOYBEAN EXUDATES.
 SO Applied and Environmental Microbiology, (1991) Vol. 57, No. 9, pp.
 2635-2639.
 CODEN: AEMIDF. ISSN: 0099-2240.
 AU BARBOUR W M [Reprint author]; HATTERMANN D R; STACEY G
 AN 1991:508273 BIOSIS
- L49 ANSWER 74 OF 151 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
 on STN DUPLICATE 21
 TI STIMULATION OF NORMAL-ALKANE CONVERSION TO DICARBOXYLIC-
 ACID BY ORGANIC-SOLVENT-TREATED AND DETERGENT-TREATED
 MICROBES
 SO APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (MAR 1991) Vol. 34, No. 6, pp.
 772-777.
 ISSN: 0175-7598.
 AU CHAN E C (Reprint); KUO J; LIN H P; MOU D G
 AN 1991:185321 SCISEARCH
- L49 ANSWER 75 OF 151 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 22
 TI Studies on microbial production of pent adecane 1,15-
 dicarboxylic acid (DC sub(17)) from heptadecane (nC
 sub(17))
 SO ACTA MICROBIOL. SIN., (1991) vol. 31, no. 6, pp. 454-459.
 ISSN: 0001-6209.
 AU Yuantong, Chen; Yuechuan, Pang; Xiuzhen, Hao; Aiyan, Lu
 AN 94:98985 LIFESCI
- L49 ANSWER 76 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Microbial production of dicarboxylic acid;
 using Candida cloacae (conference abstract)
 SO INFORM; (1991) 2, 4, 368,370
 AU Casey J; Lindner N; Poels E
 AN 1991-07026 BIOTECHDS
- L49 ANSWER 77 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Epoxy resin compositions for flexible sealing materials
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 IN Watanabe, Jiro; Yamaguchi, Kiyohiro; Kobayashi, Toshio
 AN 1991:658451 HCAPLUS

DN	115:258451				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 02206675	A2	19900816	JP 1989-25311	19890203
	JP 2790301	B2	19980827		
L49	ANSWER 78 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Pyridine-2,3-dicarboxylic acid manufacture with Pseudomonas or recombinant Escherichia coli				
SO	Eur. Pat. Appl., 12 pp. CODEN: EPXXDW				
IN	Roehl, Randall A.; Matcham, George W.; Stirling, David I.				
AN	1991:469948 HCAPLUS				
DN	115:69948				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	EP 390102	A2	19901003	EP 1990-105892	19900328
	EP 390102	A3	19920226		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	US 5166060	A	19921124	US 1989-332339	19890331
	CA 2012680	AA	19900930	CA 1990-2012680	19900321
	AU 9052416	A1	19901004	AU 1990-52416	19900330
	JP 03218358	A2	19910925	JP 1990-84747	19900330
L49	ANSWER 79 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN				
TI	Oligopeptide(s) having antiviral and antitumour activity - containing heterocyclic units and positively charged terminal gps..				
PI	US 4912199	A	19900327 (199018)*		
	CA 1308516	C	19921006 (199246)#	C07K007-06	
IN	KROWICKI, K; LOWN, J W				
L49	ANSWER 80 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Dicarboxylic acid transport and regulation of nitrogen fixation in Rhizobium meliloti				
SO	Biochemical Society Transactions (1990), 18(2), 359-60 CODEN: BCSTB5; ISSN: 0300-5127				
AU	Noonan, Brian; Birkenhead, Kate; Wang, Yiping; Boesten, Bert; Dobson, Alan; O'Gara, Fergal				
AN	1990:195080 HCAPLUS				
DN	112:195080				
L49	ANSWER 81 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Microbial production of industrial chemicals: basic features of dicarboxylic acid production by yeasts				
SO	Forum Mikrobiologie (1990), 13(5), 274-81 CODEN: FOMID4; ISSN: 0170-8244				
AU	Schindler, J.; Meussdoerffer, F.; Giesel-Buehler, H.				
AN	1990:530607 HCAPLUS				
DN	113:130607				
L49	ANSWER 82 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Dicarboxylic acid-glycol oligoesters as microbicides for foods and cosmetics				
SO	Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF				
IN	Takagi, Yoshiaki; Tokunaga, Hisatoku; Uejima, Takuo; Ono, Takeshi; Taoka, Ei; Watanabe, Akio				
AN	1989:613620 HCAPLUS				
DN	111:213620				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 01075420	A2	19890322	JP 1987-234139	19870918
L49	ANSWER 83 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Dicarboxylic acid alkyl or cholesteryl esters as				

microbicides for foods and cosmetics
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF

IN Takagi, Yoshiaki; Tokunaga, Hisatoku; Uejima, Takuo; Ono, Takeshi; Taoka, Ei; Watanabe, Akio
AN 1989:613621 HCAPLUS
DN 111:213621

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01075404	A2	19890322	JP 1987-234138	19870918
	JP 06080002	B4	19941012		

L49 ANSWER 84 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Dicarboxylic acid mono-2-(dodecyl(2-hydroxyethyl)amino) ethyl ester and its salts as corrosion inhibitors in aqueous systems
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
IN Penninger, Josef; Wehle, Volker
AN 1990:11769 HCAPLUS
DN 112:11769

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3734185	A1	19890427	DE 1987-3734185	19871009

L49 ANSWER 85 OF 151 MEDLINE on STN DUPLICATE 23
TI Identification of critical functional and regulatory domains in gelsolin.
SO The Journal of cell biology, (1989 May) Vol. 108, No. 5, pp. 1717-26.
Journal code: 0375356. ISSN: 0021-9525.
AU Kwiatkowski D J; Janmey P A; Yin H L
AN 89234161 MEDLINE

L49 ANSWER 86 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Studies on microbial production of undecane-1,11-dicarboxylic acid from N-tridecane
SO Shengwu Gongcheng Xuebao (1989), 5(3), 241-5
CODEN: SGXUED; ISSN: 1000-3061
AU Chen, Yuantong; Hao, Xiuzhen
AN 1990:19916 HCAPLUS
DN 112:19916

L49 ANSWER 87 OF 151 MEDLINE on STN DUPLICATE 24
TI Genetic analysis and regulation of the Rhizobium meliloti genes controlling C4-dicarboxylic acid transport.
SO Gene, (1989 Dec 21) Vol. 85, No. 1, pp. 135-44.
Journal code: 7706761. ISSN: 0378-1119.
AU Wang Y P; Birkenhead K; Boesten B; Manian S; O'Gara F
AN 90152354 MEDLINE

L49 ANSWER 88 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Dicarboxylic acid utilization and nitrogen fixation efficiency in Rhizobium-legume symbiosis
SO Comm. Eur. Communities, [Rep.] EUR (1988), EUR 11517, Physiol. Limitations Genet. Improv. Symbiotic Nitrogen Fixation, 149-57
CODEN: CECED9; ISSN: 0303-755X
AU O'Gara, F.; Birkenhead, K.; Wang, Y. P.; Condon, C.; Manian, S. S.
AN 1988:543523 HCAPLUS
DN 109:143523

L49 ANSWER 89 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Dicarboxylic acid transport genes;
plasmids encoding Rhizobium spp. dicarboxylic acid
transport gene; bacterium transformation for improved
nitrogen-fixation
AN 1988-04310 BIOTECHDS
PI EP 255340 3 Feb 1988

L49 ANSWER 90 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Aromatic polycarbonate and amorphous polyamide blends - containing polyamide polyether block copolymer, having improved impact resistance, useful as thermoplastic moulding compsn..
 PI US 4749754 A 19880607 (198825)* 16
 EP 301234 A 19890201 (198905) EN
 R: DE FR GB IT NL
 JP 01087655 A 19890331 (198919)
 EP 301234 B1 19940323 (199412) EN 18 C08L077-00
 R: DE FR GB IT NL
 DE 3888592 G 19940428 (199418) C08L077-00
 IN GALLUCCI, R R; MARESCA, L M

L49 ANSWER 91 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Novel polyester amide(s) and polyether ester amide(s) - prepared from di carboxylic polyamide, di-beta-hydroxy tert. amine and polyoxyalkylene glycol containing tert. amine gp..
 PI EP 281461 A 19880907 (198836)* FR 17
 R: AT BE CH DE ES FR GB IT LI NL SE
 FR 2611727 A 19880909 (198843)
 NO 8800147 A 19880919 (198843)
 JP 63227626 A 19880921 (198844)
 DK 8800979 A 19880827 (198846)
 FI 8800893 A 19880827 (198848)
 US 4839441 A 19890613 (198930) 10
 CA 1311079 C 19921201 (199302) FR C08G069-44
 EP 281461 B1 19930421 (199316) FR 21 C08G069-44
 R: AT BE CH DE ES FR GB IT LI NL SE
 DE 3880352 G 19930527 (199322) C08G069-44
 ES 2054838 T3 19940816 (199434) C08G069-44
 KR 9305139 B1 19930616 (199441) C08G063-16
 IN CUZIN, D; JUDAS, D

L49 ANSWER 92 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Microbial reduction of carboxylic acids to alcohol(s) - using carbon mon oxide and/or formate in the presence of a mediator.
 PI EP 279435 A 19880824 (198834)* GE 4
 R: CH DE FR GB IT LI NL
 DE 3705272 A 19880901 (198836)
 JP 63216483 A 19880908 (198842)
 US 4851344 A 19890725 (198937)
 EP 279435 B1 19920805 (199232) GE 4 C12P007-02
 R: CH DE FR GB IT LI NL
 DE 3873371 G 19920910 (199238) C12P007-02
 JP 2672319 B2 19971105 (199749) 3 C12P007-04
 IN LEBERTZ, H; SIMON, H

L49 ANSWER 93 OF 151 MEDLINE on STN DUPLICATE 26
 TI Symbiotic loci of Rhizobium meliloti identified by random TnphoA mutagenesis.
 SO Journal of bacteriology, (1988 Sep) Vol. 170, No. 9, pp. 4257-65.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Long S; McCune S; Walker G C
 AN 88314927 MEDLINE

L49 ANSWER 94 OF 151 MEDLINE on STN DUPLICATE 27
 TI Dicarboxylic acid transport in Bradyrhizobium japonicum: use of Rhizobium meliloti dct gene(s) to enhance nitrogen fixation.
 SO Journal of bacteriology, (1988 Jan) Vol. 170, No. 1, pp. 184-9.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Birkenhead K; Manian S S; O'Gara F
 AN 88086866 MEDLINE

L49 ANSWER 95 OF 151 LIFESCI COPYRIGHT 2006 CSA on STN

TI From petroleum to muscone and related compounds.
 HORIZONS OF BIOCHEMICAL ENGINEERING.
 SO (1988) pp. 163-170.
 ISBN: 0-19-856196-2.
 AU Chiao, Jui-Shen; Aiba, S. [editor]
 AN 88:38813 LIFESCI

L49 ANSWER 96 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Muconic acid preparation from the culture of Arthrobacter spp. or a
 mutant;
 or from strains of Corynebacterium acetoacidophilum Corynebacterium
 lilium Brevibacterium or Microbacterium using benzoic acid as the
 C-source
 AN 1986-08706 BIOTECHDS
 PI DE 3541581 28 May 1986

L49 ANSWER 97 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Microbial rennet obtd. from Mucor pusillus - is improved by acylating with
 di carboxylic acid anhydride then oxidising with oxidising agent.
 PI JP 61185186 A 19860818 (198639)* 22

L49 ANSWER 98 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Production of brassylic acid by fermentation
 SO Bio Industry (1986), 3(12), 867-74
 CODEN: BIINEG; ISSN: 0910-6545
 AU Taoka, Akira
 AN 1987:174559 HCAPLUS
 DN 106:174559

L49 ANSWER 99 OF 151 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
 on STN DUPLICATE 28
 TI DICARBOXYLIC-ACID TRANSPORT IN RHIZOBIUM-MELILOTI - ISOLATION OF MUTANTS
 AND CLONING OF DICARBOXYLIC-ACID TRANSPORT
 GENES
 SO ARCHIVES OF MICROBIOLOGY, (MAR 1986) Vol. 144, No. 2, pp. 142-146.
 ISSN: 0302-8933.
 AU BOLTON E (Reprint); HIGGISSON B; HARRINGTON A; OGARA F
 AN 1986:196483 SCISEARCH

L49 ANSWER 100 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Photochemistry of 3,4,9,10-perylenetetracarboxylic dianhydride dyes:
 visible absorption and fluorescence spectra and fluorescence quantum
 yields of the mono(n-octyl)imide derivative in aqueous and non-aqueous
 solutions
 SO Journal of Photochemistry (1986), 34(1), 43-54
 CODEN: JPCMAE; ISSN: 0047-2670
 AU Ford, William E.
 AN 1986:524065 HCAPLUS
 DN 105:124065

L49 ANSWER 101 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Cathode depositing electrodeposition coating compsn. - has low temperature
 curability and high corrosion resistance.
 PI EP 141601 A 19850515 (198520)* EN 56
 R: DE GB
 JP 60090273 A 19850521 (198526)
 JP 60090274 A 19850521 (198526)
 US 4543406 A 19850924 (198541)
 JP 60219272 A 19851101 (198550)
 EP 141601 B 19870527 (198721) EN
 R: DE GB
 DE 3463944 G 19870702 (198727)
 JP 02038142 B 19900829 (199038)
 JP 02046069 B 19901012 (199045)
 JP 02046070 B 19901012 (199045)

IN ARAKI, Y; OMIKA, H; OSHIMA, A; OTSUKI, Y; TSUCHIYA, Y

L49 ANSWER 102 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Genes involved in the carbon metabolism of bacteroids
SO Nitrogen Fixation Res. Prog., Proc. Int. Symp., 6th (1985), 201-7.
Editor(s): Evans, Harold J.; Bottomley, Peter J.; Newton, William Edward.
Publisher: Nijhoff, Dordrecht, Neth.
CODEN: 54VZAZ
AU Ronson, Clive W.; Astwood, Patricia M.
AN 1986:103204 HCAPLUS
DN 104:103204

L49 ANSWER 103 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Molecular cloning and genetic organization of C4-dicarboxylate transport
genes from Rhizobium leguminosarum
SO Adv. Mol. Genet. Bact.-Plant Interact., Proc. Int. Symp., 2nd (1985),
Meeting Date 1984, 61-3. Editor(s): Szalay, Aladar A.; Legocki, Roman P.
Publisher: Boyce Thompson Inst. Plant Res., Ithaca, N. Y.
CODEN: 55IDAD
AU Ronson, Clive W.; Astwood, Patricia M.; Downie, J. Allan
AN 1987:44789 HCAPLUS
DN 106:44789

L49 ANSWER 104 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis of thermotropic polyesters
SO Acta Polymerica (1984), 35(10), 636-42
CODEN: ACPODY; ISSN: 0323-7648
AU Markova, G. D.; Keshelava, R. G.; Vasnev, V. A.; Vinogradova, S. V.;
Korshak, V. V.; Borisov, G.; Sevriev, Kh.
AN 1984:611826 HCAPLUS
DN 101:211826

L49 ANSWER 105 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Diagenetic chemistry of the Paraiba Valley oil shale
SO Organic Geochemistry (1984), 6(Adv. Org. Geochem. 1983), 153-5
CODEN: ORGEDE; ISSN: 0146-6380
AU Chicarelli, M. I.; Damasceno, L. P.; Cardoso, J. N.
AN 1985:456460 HCAPLUS
DN 103:56460

L49 ANSWER 106 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI An isolating method for dicarboxylic acid;
from a fermentation broth
AN 1983-07579 BIOTECHDS
PI JP 58086090 23 May 1983

L49 ANSWER 107 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI A microbial preparation method for unsaturated
dicarboxylic acid;
preparation of alpha,omega-linear unsaturated dicarboxylic acid from
fatty acid using Candida tropicalis
AN 1984-01154 BIOTECHDS
PI JP 58165794 30 Sep 1983

L49 ANSWER 108 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Bicyclo[2.2.1]-7-oxaheptenes
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
AN 1984:119329 HCAPLUS
DN 100:119329

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 58134995	A2	19830811	JP 1982-12080	19820128

L49 ANSWER 109 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Long chain di carboxylic acid preparation from oil and fat - by culturing
Candida genus microorganism e.g. C. tropicalis 1098 (FERM-3291) in oil and
fat-containing medium.

PI JP 58165795 A 19830930 (198345)* 5
JP 60008796 B 19850305 (198513)

L49 ANSWER 110 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Spontaneous 2:1 sequence-regulated copolymerization of cyclic imino ethers
with cyclic carboxylic anhydrides
SO Macromolecules (1982), 15(3), 703-7
CODEN: MAMOBX; ISSN: 0024-9297
AU Kobayashi, Shiro; Isobe, Michihisa; Saegusa, Takeo
AN 1982:406817 HCAPLUS
DN 97:6817

L49 ANSWER 111 OF 151 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN DUPLICATE 30
TI STABILIZATION OF MICROBIAL PROTEASES AGAINST AUTOLYSIS USING
ACYLATION WITH DICARBOXYLIC-ACID ANHYDRIDES
SO BIOTECHNOLOGY AND BIOENGINEERING, (1982) Vol. 24, No. 2, pp. 483-486.
ISSN: 0006-3592.
AU MANEEPUN S (Reprint); KLIBANOV A M
AN 1982:75409 SCISEARCH

L49 ANSWER 112 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Removal of microbial cells from fermented broth of long chain
dicarboxylic acid
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
AN 1981:513398 HCAPLUS
DN 95:113398

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 56026193	A2	19810313	JP 1979-101622	19790809
	JP 57055399	B4	19821124		

L49 ANSWER 113 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Copper complexes, their use in controlling plant pests
SO Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
IN Kraft, Helmut; Schumacher, Heinz; Pommer, Ernst Heinrich; Schlotterbeck,
Dietrich; Ley, Gregor
AN 1982:81340 HCAPLUS
DN 96:81340

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 39788	A2	19811118	EP 1981-102722	19810410
	EP 39788	A3	19811125		
	EP 39788	B1	19830928		
	R: AT, BE, CH, DE, FR, IT, NL, SE				
	DE 3017123	A1	19811105	DE 1980-3017123	19800503
	DE 3022432	A1	19820107	DE 1980-3022432	19800614
	DE 3039409	A1	19820519	DE 1980-3039409	19801018
	AT 4766	E	19831015	AT 1981-102722	19810410

L49 ANSWER 114 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Refining long linear di carboxylic acids - prepared by fermentation, by
dissolving initially separated acids in alkali and adding white clay to remove
impurities.

PI JP 56026194 A 19810313 (198118)*
JP 57055400 B 19821124 (198250)

L49 ANSWER 115 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Recovery of di carboxylic acids prepared by fermentation - comprises adding
inorganic acid, extracting the di carboxylic acid with aromatic

hydrocarbon solvent, and re-extracting into diol.
PI JP 56015695 A 19810214 (198114)*

L49 ANSWER 116 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Refining di carboxylic acid produced by fermentation - by adding inorganic acid to crystallise acid, extracting with organic hydrocarbon contacting with organic solvent and recrystallising.
PI JP 56015694 A 19810214 (198114)*

L49 ANSWER 117 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Refining di carboxylic acid prepared by fermentation - by adding inorganic acid, extracting with solvent, contacting with aldehyde cpd. and crystallising out acid.
PI JP 56015693 A 19810214 (198114)*

L49 ANSWER 118 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Refining di carboxylic acid obt'd. by fermentation - by removing microbial body, regulating pH, crystallising out acid, heating and recrystallising.
PI JP 56011797 A 19810205 (198113)*

L49 ANSWER 119 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Fermentative production of di carboxylic acid - by culturing Candida tropicalis in liquid medium containing linear hydrocarbon at specified pH ranges.
PI JP 56011796 A 19810205 (198113)*
US 4339536 A 19820713 (198230)
JP 58029077 B 19830620 (198328)

L49 ANSWER 120 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Biochemical separation of L-menthol
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
AN 1981:14031 HCAPLUS
DN 94:14031

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55048396	A2	19800407	JP 1978-121224	19781222

L49 ANSWER 121 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Polyester(s) useful for fibres and plastics - prepared by interfacial condensn. of aromatic di carboxylic acid halide or anhydride with bisphenol dissolved in specified solvents.
PI US 4201855 A 19800506 (198020)*
IN SEGAL, L

L49 ANSWER 122 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Radioactive labeling of acidic regions in the adenovirus hexon protein through metabolic conversion of [14C]-acetate
SO FEBS Letters (1978), 88(2), 237-41
CODEN: FEBLAL; ISSN: 0014-5793
AU Jornvall, Hans; Von Bahr-Lindstrom, Hedvig; Philipson, Lennart
AN 1978:402674 HCAPLUS
DN 89:2674

L49 ANSWER 123 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Microbial production of long-chain dicarboxylic acids from n-alkanes
SO Sekiyu to Biseibutsu (1978), 20, 13-16
CODEN: STBIDP
AU Uchio, Ryosuke
AN 1980:96378 HCAPLUS
DN 92:96378

L49 ANSWER 124 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Microbial production of dicarboxylic acid
SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

IN Furukawa, Toshiro; Hiratsuka, Junzo; Deno, Hiroshi; Matsuyoshi, Toru;
Kaneyuki, Hiroo

AN 1977:187699 HCAPLUS

DN 86:187699

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 52018885	A2	19770212	JP 1975-95053	19750806
	JP 56008595	B4	19810224		

L49 ANSWER 125 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Prostaglandin derivatives preparation - by hydrolysing a cyclopentenone dicarboxylic acid ester derivative with either enzymes or microbes.

PI JP 52028993 A 19770304 (197715)*
JP 56008594 B 19810224 (198112)

L49 ANSWER 126 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Microbial prodn of dicarboxylic acid - from alkane or alcohol using Torulopsis bombicola strain.

PI US 3975234 A 19760817 (197635)*

L49 ANSWER 127 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Thick grease from lithium soaps

SO Fr. Demande, 15 pp.

CODEN: FRXXBL

AN 1976:47026 HCAPLUS

DN 84:47026

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2255374	A1	19750718	FR 1973-46016	19731221
	FR 2255374	B1	19800620		

L49 ANSWER 128 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Bis-ar-oxazolyl-para-poly-phenylenes, production - from di-carboxylic acid and ortho-amino-hydroxy cpds. and use as optical brighteners.

PI CH 559737 A 19750314 (197517)*

L49 ANSWER 129 OF 151 MEDLINE on STN DUPLICATE 31

TI 7alpha-Carboalkoxy steroidal spirolactones as aldosterone antagonists.

SO Journal of medicinal chemistry, (1975 Aug) Vol. 18, No. 8, pp. 817-21.

Journal code: 9716531. ISSN: 0022-2623.

AU Weier R M; Hofmann L M

AN 76007391 MEDLINE

L49 ANSWER 130 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Printing ink binder containing modified hydrocarbon resin - prepared from hydrocarbon resin with low indene content, unsaturated dicarboxylic acid, and phenol/aldehyde condensate.

PI NL 7317761 A 19740702 (197429)*
DE 2264284 A 19740718 (197430)
BE 809087 A 19740627 (197434)
FR 2212406 A 19740830 (197443)
JP 49101103 A 19740925 (197448)
GB 1458219 A 19761207 (197650)
JP 52020881 B 19770607 (197726)
NL 155878 B 19780215 (197811)
US 4197378 A 19800408 (198016)
DE 2264284 C 19820527 (198222)
US 4401791 A 19830830 (198337)
US 4506059 A 19850319 (198514)
JP 35106867 B 19850612 (198530)
JP 62009627 B 19870302 (198712)

L49 ANSWER 131 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Role of malic enzymic in Aspergillus nidulans
SO FEBS Letters (1974), 41(2), 238-42
CODEN: FEBLAL; ISSN: 0014-5793
AU McCullough, W.; Roberts, C. F.
AN 1974:422972 HCAPLUS
DN 81:22972

L49 ANSWER 132 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Biochemical and genetic characteristics of the C4-dicarboxylic acids
transport system of Salmonella typhimurium
SO Archiv fuer Mikrobiologie (1973), 94(1), 65-76
CODEN: ARMKA7; ISSN: 0003-9276
AU Parada, Jose L.; Ortega, Manuel V.; Carrillo-Castaneda, Guillermo
AN 1974:130275 HCAPLUS
DN 80:130275

L49 ANSWER 133 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Two-stage preparation of high-dropping-point lithium soap grease
SO U.S., 3 pp.
CODEN: USXXAM
IN Gilani, Syed S. H.; Murray, Donald W.; Salva, Juan M.
AN 1972:542107 HCAPLUS
DN 77:142107

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 3681242	A	19720801	US 1971-110596	19710128

L49 ANSWER 134 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI SYNTHESIS AND ANTI MICROBIAL ACTIVITY OF THIO CARBOHYDRAZIDE-1
5-DICARBOXYLIC-ACID DI ESTERS.
SO Journal of Pharmaceutical Sciences, (1972) Vol. 61, No. 9, pp. 1486-1487.
CODEN: JPMSAE. ISSN: 0022-3549.
AU LALEZARI I; REZVANI N; MALEKZADEH F
AN 1973:112853 BIOSIS

L49 ANSWER 135 OF 151 MEDLINE on STN
TI [Microbiological method of preparing 2,6-naphthalene
dicarboxylic acid in co-oxidative conditions].
Mikrobiologicheskii sposob polucheniia 2,6-naftalindikarbonovoi kisloty v
sookislitel'nykh usloviiakh.
SO Doklady Akademii nauk SSSR, (1972 Feb 1) Vol. 202, No. 4, pp. 973-4.
Journal code: 7505465. ISSN: 0002-3264.
AU Shriabin G K; Starovoitov I I; Golovleva L A
AN 72131260 MEDLINE

L49 ANSWER 136 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Strained ring systems. IX. Preparation of some 5-substituted
bicyclo[3.1.0]hexane-1-carboxylic acids
SO Journal of Organic Chemistry (1970), 35(8), 2666-9
CODEN: JOCEAH; ISSN: 0022-3263
AU McDonald, Richard N.; Reitz, Robert R.
AN 1970:466111 HCAPLUS
DN 73:66111

L49 ANSWER 137 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Mass-spectrometric determination of amino acid sequences in
peptides. XV. Fragmentation of peptides containing monoamino
dicarboxylic acid groups
SO Zhurnal Obshchei Khimii (1970), 40(2), 443-60
CODEN: ZOKHA4; ISSN: 0044-460X
AU Shemyakin, M. M.; Ovchinnikov, Yu. A.; Kiryushkin, A. A.; Miroshnikov, A.
I.; Rozynov, B. V.
AN 1970:133185 HCAPLUS
DN 72:133185

L49 ANSWER 138 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Two mutations affecting utilization of C4-dicarboxylic acids by
 Escherichia coli
 SO Journal of General Microbiology (1970), 63(Pt. 2), 151-62
 CODEN: JGMIAN; ISSN: 0022-1287
 AU Herbert, A. A.; Guest, John R.
 AN 1971:108535 HCAPLUS
 DN 74:108535

L49 ANSWER 139 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Synthesis of polyamides from rigid and sterically hindered dicarboxylic
 acids and diamines under mild conditions
 SO Journal of Polymer Science, Polymer Chemistry Edition (1969), 7(10),
 2875-87
 CODEN: JPLCAT; ISSN: 0449-296X
 AU Overberger, Charles G.; Sebenda, Jan
 AN 1970:3853 HCAPLUS
 DN 72:3853

L49 ANSWER 140 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Curing profile of unsaturated polyester resins
 SO Kunststoffe (1968), 58(12), 925-32
 CODEN: KUNSAV; ISSN: 0023-5563
 AU Demmler, Kurt; Ropte, Eckhard
 AN 1969:88517 HCAPLUS
 DN 70:88517

L49 ANSWER 141 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI PREPARATION OF OPTICALLY ACTIVE DICARBOXYLIC-ACID MONO
 ESTERS BY MICROBIOLOGICAL PARTIAL SAPONIFICATION OF SYMMETRIC
 DICARBOXYLIC-ACID ESTERS CURVULARIA-LUNATA
 PENICILLIUM-ALBIDUM.
 SO JUSTUS LIEBIGS ANN CHEM, (1968) No. 711, pp. 38-41.
 AU KOSMOL H; KIESLICH K; GIBIAN H
 AN 1969:100289 BIOSIS

L49 ANSWER 142 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Preparation of optically active dicarboxylic acid
 monoesters by microbiological partial saponification of
 symmetrical dicarboxylic acid esters
 SO Justus Liebig's Annalen der Chemie (1968), 711, 38-41
 CODEN: JLACBF; ISSN: 0075-4617
 AU Kosmol, Horst; Kieslich, Klaus; Gibian, Heinz
 AN 1968:95464 HCAPLUS
 DN 68:95464

L49 ANSWER 143 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Optically active 8,8'-dimethyl-1,1'-binaphthyl. The energy barrier for
 racemization
 SO Chemistry & Industry (London, United Kingdom) (1964), (32), 1426
 CODEN: CHINAG; ISSN: 0009-3068
 AU Badar, Yasmeen; Harris, Margaret M.
 AN 1964:461276 HCAPLUS
 DN 61:61276
 OREF 61:10570b-d

L49 ANSWER 144 OF 151 MEDLINE on STN DUPLICATE 32
 TI Microbial oxidation of glycollate via a dicarboxylic
 acid cycle.
 SO Nature, (1960 Jan 16) Vol. 185, pp. 153-5.
 Journal code: 0410462. ISSN: 0028-0836.
 AU KORNBERG H L; SADLER J R
 AN 60163706 MEDLINE

L49 ANSWER 145 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Ethylene oxide- α,β - dicarboxylic acid
(fumarylglycidic acid) production by microbes. VI. Fermentation
by *Monilia formosa* in the presence of radioactive carbon dioxide
SO Nippon Nogeï Kagaku Kaishi (1954), 28, 376-82
CODEN: NNKKAA; ISSN: 0002-1407

AU Nomura, Masayasu; Takahashi, Hajime; Sakaguchi, Kinichiro

AN 1956:82973 HCAPLUS

DN 50:82973

OREF 50:15722a-c

L49 ANSWER 146 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Azo dye

IN Stusser, Richard

AN 1929:11205 HCAPLUS

DN 23:11205

OREF 23:1281d-e

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 469340		19281208	DE 1927-I30579	19270311

L49 ANSWER 147 OF 151 NTIS COPYRIGHT 2006 NTIS on STN

TI Microbial Utilization of Benzoic Acid.

NR PB86-239340/XAB

8p; c1985

AU Yoshikawa, N.

AN 1986(19):00970 NTIS

L49 ANSWER 148 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Microbiological 1-dehydrogenation of 4,9 (11)-pregnadienes - using
septomoxa affinis.

PI US 3770586 A (197346)*

JP 49046076 B 19741207 (197502)

L49 ANSWER 149 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI 2,6-naphthalene dicarboxylic acid (i) prodn - by
microbiological oxidn of 2,6-dimethylnaphthalene.

PI SU 370228 A (197344)*

L49 ANSWER 150 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Sequenced copolyester - contg units from polyoxyalkylene glycol,
aromatic dicarboxylic acid and low m wt diol.

PI BE 793332 A (197324)*

NL 7300516 A (197333)

DE 2263046 A (197335)

ZA 7300083 A (197343)

FR 2169052 A (197347)

JP 48084195 A 19731108 (197403)

US 3784520 A 19740108 (197403)

GB 1403210 A 19750820 (197534)

AR 203264 A 19750829 (197616)

CA 987830 A 19760420 (197619)

DE 2263046 B 19780817 (197834)

NL 162941 B 19800215 (198010)

L49 ANSWER 151 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Block polymers-of unsymmetrical and non-linear structure.

PI BE 767474 A (197147)*

DE 2125344 A (197149)

NL 7106861 A (197149)

JP 46007289 A (197202)

ZA 7103278 A (197206)

FR 2093581 A (197217)

GB 1312854 A (197315)

CA 997889	A	19760928 (197642)
NL 162935	B	19800215 (198010)
JP 55030005	B	19800807 (198036)
DE 2125344	C	19820204 (198206)

=> s pox4?

FILE 'MEDLINE'

L50 14 POX4?

FILE 'SCISEARCH'

L51 7 POX4?

FILE 'LIFESCI'

L52 11 POX4?

FILE 'BIOTECHDS'

L53 10 POX4?

FILE 'BIOSIS'

L54 18 POX4?

FILE 'EMBASE'

L55 12 POX4?

FILE 'HCAPLUS'

L56 32 POX4?

FILE 'NTIS'

L57 0 POX4?

FILE 'ESBIOBASE'

L58 6 POX4?

FILE 'BIOTECHNO'

L59 11 POX4?

FILE 'WPIDS'

L60 10 POX4?

TOTAL FOR ALL FILES

L61 131 POX4?

=> s l61 and (candida or tropicalis or promoter?)

FILE 'MEDLINE'

35763 CANDIDA

2622 TROPICALIS

128040 PROMOTER?

L62 12 L50 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'SCISEARCH'

30406 CANDIDA

2646 TROPICALIS

135187 PROMOTER?

L63 6 L51 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'LIFESCI'

14778 CANDIDA

1585 TROPICALIS

71444 PROMOTER?

L64 8 L52 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'BIOTECHDS'

7866 CANDIDA

670 TROPICALIS

```

37790 PROMOTER?
L65      10 L53 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'BIOSIS'
      47100 CANDIDA
      5546 TROPICALIS
      140707 PROMOTER?
L66      13 L54 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'EMBASE'
      34380 CANDIDA
      2863 TROPICALIS
      109197 PROMOTER?
L67      9 L55 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'HCAPLUS'
      38754 CANDIDA
      4595 TROPICALIS
      197199 PROMOTER?
L68      24 L56 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'NTIS'
      207 CANDIDA
      18 TROPICALIS
      1762 PROMOTER?
L69      0 L57 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'ESBIOBASE'
      9887 CANDIDA
      1053 TROPICALIS
      74585 PROMOTER?
L70      4 L58 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'BIOTECHNO'
      7887 CANDIDA
      839 TROPICALIS
      76660 PROMOTER?
L71      9 L59 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'WPIDS'
      6985 CANDIDA
      574 TROPICALIS
      39911 PROMOTER?
L72      9 L60 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

TOTAL FOR ALL FILES
L73      104 L61 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

=> s l73 not 2003-2006/py
FILE 'MEDLINE'
      2108991 2003-2006/PY
              (20030000-20069999/PY)
L74      12 L62 NOT 2003-2006/PY

FILE 'SCISEARCH'
      3861676 2003-2006/PY
              (20030000-20069999/PY)
L75      6 L63 NOT 2003-2006/PY

FILE 'LIFESCI'
      351389 2003-2006/PY
L76      8 L64 NOT 2003-2006/PY

FILE 'BIOTECHDS'
      90994 2003-2006/PY

```

L77 7 L65 NOT 2003-2006/PY

FILE 'BIOSIS'

1749059 2003-2006/PY

L78 13 L66 NOT 2003-2006/PY

FILE 'EMBASE'

1809766 2003-2006/PY

L79 9 L67 NOT 2003-2006/PY

FILE 'HCAPLUS'

4008365 2003-2006/PY

L80 18 L68 NOT 2003-2006/PY

FILE 'NTIS'

48776 2003-2006/PY

L81 0 L69 NOT 2003-2006/PY

FILE 'ESBIOBASE'

1064975 2003-2006/PY

L82 4 L70 NOT 2003-2006/PY

FILE 'BIOTECHNO'

122467 2003-2006/PY

L83 9 L71 NOT 2003-2006/PY

FILE 'WPIDS'

3640505 2003-2006/PY

L84 4 L72 NOT 2003-2006/PY

TOTAL FOR ALL FILES

L85 90 L73 NOT 2003-2006/PY

=> dup rem l85

PROCESSING COMPLETED FOR L85

L86 26 DUP REM L85 (64 DUPLICATES REMOVED)

=> d tot

L86 ANSWER 1 OF 26 MEDLINE on STN DUPLICATE 1

TI Analysis of POX4 and POX5 gene encoded proteins of
Candida tropicalis 1230.

SO Wei sheng wu xue bao = Acta microbiologica Sinica, (2002 Apr) Vol. 42, No.
2, pp. 193-9.

Journal code: 21610860R. ISSN: 0001-6209.

AU Qin Wenyan; Ren Gang; Rong Dong; Chen Yuantong

AN 2003048723 MEDLINE

L86 ANSWER 2 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Purification and recovery of dicarboxylic acids, particularly long chain
dicarboxylic acids, from a feed containing dicarboxylic acids and at
least one impurity by melt crystallization;
for use in DNA purification

AU Kozak W G; Rebrovic L; Gottman A M; Staley M D

AN 2001-09214 BIOTECHDS

PI WO 2001021572 29 Mar 2001

L86 ANSWER 3 OF 26 MEDLINE on STN DUPLICATE 3

TI Repression of fatty-acyl-CoA oxidase-encoding gene expression is not
necessarily a determinant of high-level production of dicarboxylic acids
in industrial dicarboxylic-acid-producing Candida
tropicalis.

SO Applied microbiology and biotechnology, (2001 Aug) Vol. 56, No. 3-4, pp.
478-85.

Journal code: 8406612. ISSN: 0175-7598.

AU Hara A; Ueda M; Matsui T; Arie M; Saeki H; Matsuda H; Furuhashi K; Kanai T; Tanaka A

AN 2001499377 MEDLINE

L86 ANSWER 4 OF 26 MEDLINE on STN DUPLICATE 4

TI Novel and convenient methods for *Candida tropicalis* gene disruption using a mutated hygromycin B resistance gene.

SO Archives of microbiology, (2001 Nov) Vol. 176, No. 5, pp. 364-9.
Journal code: 0410427. ISSN: 0302-8933.

AU Hara A; Arie M; Kanai T; Matsui T; Matsuda H; Furuhashi K; Ueda M; Tanaka A

AN 2001648937 MEDLINE

L86 ANSWER 5 OF 26 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Carboxylic acid recovery involves adjusting viscosity of fermentation broth and contacting with liquid extractant.

PI WO 2000020620 A2 20000413 (200028)* EN 35 C12P017-00
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ TZ UG ZW
W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT UA UG UZ VN YU ZA ZW

AU 9963871 A 20000426 (200036) C12P017-00

IN KOZAK, W G; REBROVIC, L; STALEY, M D; VICE, G H

L86 ANSWER 6 OF 26 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Involvement of acyl coenzyme A oxidase isozymes in biotransformation of methyl ricinoleate into gamma-decalactone by *Yarrowia lipolytica*

SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (MAR 2000) Vol. 66, No. 3, pp. 1233-1236.
ISSN: 0099-2240.

AU Wache Y (Reprint); Laroche C; Bergmark K; Moller-Andersen C; Aguedo M; Le Dall M T; Wang H J; Nicaud J M; Belin J M

AN 2000:184408 SCISEARCH

L86 ANSWER 7 OF 26 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5

TI Process for making polycarboxylic acids

SO U.S., 11 pp., Cont. of U.S. Ser. No. 757,555, abandoned.
CODEN: USXXAM

IN Anderson, Kevin W.; Wenzel, J. Douglas; Fayter, Richard G.; McVay, Kenneth R.

AN 1999:633278 HCAPLUS

DN 131:256409

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5962285	A	19991005	US 1998-106611	19980623
CA 2343315	AA	20000323	CA 1998-2343315	19980917
WO 2000015828	A1	20000323	WO 1998-US18494	19980917
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9894741	A1	20000403	AU 1998-94741	19980917
EP 1114174	A1	20010711	EP 1998-948100	19980917
R:	AT, DE, DK, ES, FR, GB, IT, NL, IE, FI			
JP 2002525069	T2	20020813	JP 2000-570355	19980917
IN 187718	A	20020615	IN 1998-MA2153	19980924

L86 ANSWER 8 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Production of mono- and di-carboxylic alkanolic acids in new engineered yeast;
 vector plasmid-mediated cytochrome-P450-monooxygenase and cytochrome-P450-reductase gene transfer and expression in *Pichia pastoris* and *Candida maltosa*
 AU Fallon R D; Payne M S; Picataggio S K; Wu S
 AN 1999-04979 BIOTECHDS
 PI WO 9904014 28 Jan 1999

L86 ANSWER 9 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Controlling germination of seeds by transforming with construct encoding germination-inhibitor;
 and restorer gene inducible expression in a transgenic plant; soybean acyl-CoA-oxidase gene transfer
 AU Agarwal A K; Brown S M; Qi Y
 AN 1998-02208 BIOTECHDS
 PI WO 9744465 27 Nov 1997

L86 ANSWER 10 OF 26 MEDLINE on STN DUPLICATE 7
 TI Gene analysis of an NADP-linked isocitrate dehydrogenase localized in peroxisomes of the n-alkane-assimilating yeast *Candida tropicalis*.
 SO European journal of biochemistry / FEBS, (1997 Nov 15) Vol. 250, No. 1, pp. 205-11.
 Journal code: 0107600. ISSN: 0014-2956.
 AU Kawachi H; Shimizu K; Atomi H; Sanuki S; Ueda M; Tanaka A
 AN 1998092307 MEDLINE

L86 ANSWER 11 OF 26 LIFESCI COPYRIGHT 2006 CSA on STN
 TI Cloning and characterization of the POX2 gene in *Candida maltosa*
 SO GENE, (1996) vol. 167, no. 1-2, pp. 157-161.
 ISSN: 0378-1119.
 AU Masuda, Y.; Park, S.M.; Ohta, A.; Takagi, M.
 AN 96:26410 LIFESCI

L86 ANSWER 12 OF 26 MEDLINE on STN DUPLICATE 8
 TI Cloning and characterization of the POX2 gene in *Candida maltosa*.
 SO Gene, (1995 Dec 29) Vol. 167, No. 1-2, pp. 157-61.
 Journal code: 7706761. ISSN: 0378-1119.
 AU Masuda Y; Park S M; Ohta A; Takagi M
 AN 96144267 MEDLINE

L86 ANSWER 13 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Production of saturated and unsaturated dicarboxylic acids by a metabolically-engineered strain of *Candida tropicalis*
 ;
 metabolic engineering for improved dicarboxylic acid production from fatty acid by omega-oxidation (conference abstract)
 SO Abstr.Pap.Am.Chem.Soc.; (1992) 203 Meet., Pt.1, BIOT143
 CODEN: ACSRAL
 AU Eirich L D; Lanning D M; Deanda K; Rohrer T; Mielenz J R; Picataggio S
 AN 1992-08706 BIOTECHDS

L86 ANSWER 14 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Method for increasing omega-hydroxylase activity;
 cytochrome-P450-ALK1, cytochrome-P450-ALK2 and/or cytochrome-P450-RED gene cloning in *Candida tropicalis* via gene disruption; gene dosage effect; alpha,omega-dicarboxylic acid production
 AN 1992-00388 BIOTECHDS
 PI WO 9114781 3 Oct 1991

L86 ANSWER 15 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Site-specific modification of the *Candida tropicalis*

genome;

POX4A, POX4B and POX5 beta-oxidation pathway gene
disruption method; URA3, URA3B or HIS4 auxotrophy;
alpha,omega-dicarboxylic acid preparation using mutant

AN 1991-09454 BIOTECHDS
PI WO 9106660 16 May 1991

L86 ANSWER 16 OF 26 MEDLINE on STN DUPLICATE 11
TI Determination of *Candida tropicalis* acyl coenzyme A
oxidase isozyme function by sequential gene disruption.
SO Molecular and cellular biology, (1991 Sep) Vol. 11, No. 9, pp. 4333-9.
Journal code: 8109087. ISSN: 0270-7306.
AU Picataggio S; Deanda K; Mielenz J
AN 91342632 MEDLINE

L86 ANSWER 17 OF 26 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Assignment of most genes encoding major peroxisomal polypeptides to
chromosomal band V of the asporogenic yeast *Candida tropicalis*
SO Yeast (1991), 7(5), 503-11
CODEN: YESTE3; ISSN: 0749-503X
AU Kamiryo, Tatsuyuki; Mito, Naruo; Niki, Toshiro; Suzuki, Takahito
AN 1991:528920 HCAPLUS
DN 115:128920

L86 ANSWER 18 OF 26 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI MECHANISM OF INDUCTION OF ACYL-COA OXIDASE BY PEROXISOME PROLIFERATORS.
SO Journal of Cell Biology, (1991) Vol. 115, No. 3 PART 2, pp. 234A.
Meeting Info.: ABSTRACTS OF PAPERS PRESENTED AT THE THIRTY-FIRST ANNUAL
MEETING OF THE AMERICAN SOCIETY FOR CELL BIOLOGY, BOSTON, MASSACHUSETTS,
USA, DECEMBER 8-12, 1991. J CELL BIOL.
CODEN: JCLBA3. ISSN: 0021-9525.
AU WANG T W [Reprint author]; LEWIN A S; SMALL G M
AN 1992:65859 BIOSIS

L86 ANSWER 19 OF 26 MEDLINE on STN DUPLICATE 12
TI Structure and transcriptional control of the *Saccharomyces cerevisiae* POX1
gene encoding acyl-coenzyme A oxidase.
SO Gene, (1990 Apr 16) Vol. 88, No. 2, pp. 247-52.
Journal code: 7706761. ISSN: 0378-1119.
AU Dmochowska A; Dignard D; Maleszka R; Thomas D Y
AN 90269614 MEDLINE

L86 ANSWER 20 OF 26 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 13
TI EXPRESSION AND TRANSPORT OF *CANDIDA-TROPICALIS*
PEROXISOMAL ACYL COENZYME A OXIDASE IN THE YEAST *CANDIDA*
-MALTOSA.
SO Agricultural and Biological Chemistry, (1989) Vol. 53, No. 1, pp. 179-186.
CODEN: ABCHA6. ISSN: 0002-1369.
AU KAMIRYO T [Reprint author]; SAKASEGAWA Y; TAN H
AN 1989:244885 BIOSIS

L86 ANSWER 21 OF 26 LIFESCI COPYRIGHT 2006 CSA on STN
TI Expression and transport of *Candida tropicalis*
peroxisomal acyl-coenzyme A oxidase in the yeast *Candida maltosa*
SO AGRIC. BIOL. CHEM., (1989) vol. 53, no. 1, pp. 171-186.
AU Kamiryo, T.; Sakasegawa, Y.; Tan, H.
AN 89:59822 LIFESCI

L86 ANSWER 22 OF 26 MEDLINE on STN DUPLICATE 14
TI Acyl-CoA oxidase contains two targeting sequences each of which can
mediate protein import into peroxisomes.

SO The EMBO journal, (1988 Apr) Vol. 7, No. 4, pp. 1167-73.
Journal code: 8208664. ISSN: 0261-4189.
AU Small G M; Szabo L J; Lazarow P B
AN 88296421 MEDLINE

L86 ANSWER 23 OF 26 MEDLINE on STN DUPLICATE 15
TI Import of the carboxy-terminal portion of acyl-CoA oxidase into peroxisomes of *Candida tropicalis*.
SO The Journal of cell biology, (1987 Jul) Vol. 105, No. 1, pp. 247-50.
Journal code: 0375356. ISSN: 0021-9525.
AU Small G M; Lazarow P B
AN 87280361 MEDLINE

L86 ANSWER 24 OF 26 MEDLINE on STN DUPLICATE 16
TI The primary structure of a peroxisomal fatty acyl-CoA oxidase from the yeast *Candida tropicalis* pK233.
SO Gene, (1987) Vol. 51, No. 2-3, pp. 119-28.
Journal code: 7706761. ISSN: 0378-1119.
AU Murray W W; Rachubinski R A
AN 87248070 MEDLINE

L86 ANSWER 25 OF 26 MEDLINE on STN DUPLICATE 17
TI Peroxisomal acyl-coenzyme A oxidase multigene family of the yeast *Candida tropicalis*; nucleotide sequence of a third gene and its protein product.
SO Gene, (1987) Vol. 58, No. 1, pp. 37-44.
Journal code: 7706761. ISSN: 0378-1119.
AU Okazaki K; Tan H; Fukui S; Kubota I; Kamiryo T
AN 88084444 MEDLINE

L86 ANSWER 26 OF 26 MEDLINE on STN DUPLICATE 18
TI Two acyl-coenzyme A oxidases in peroxisomes of the yeast *Candida tropicalis*: primary structures deduced from genomic DNA sequence.
SO Proceedings of the National Academy of Sciences of the United States of America, (1986 Mar) Vol. 83, No. 5, pp. 1232-6.
Journal code: 7505876. ISSN: 0027-8424.
AU Okazaki K; Takechi T; Kambara N; Fukui S; Kubota I; Kamiryo T
AN 86149279 MEDLINE

=> d ab 2,3,7,13,14

L86 ANSWER 2 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB Dicarboxylic acids, particularly long chain dicarboxylic acids, are recovered from a feed containing dicarboxylic acids and at least one impurity. The method utilizes melt crystallization. Also claimed is a composition of two or more dicarboxylic acids such as octanedioic acid, nonanedioic acid and decanedioic acid, etc. The method is used for the purification and recovery of dicarboxylic acids from a feed. The method does not require the use of organic solvents and achieves very high purities of dicarboxylic acids as a final product. The microorganism is a yeast cell such as *Candida tropicalis* cell. The *C. tropicalis* cell is partially or completely beta-oxidation blocked cell in which both copies of the chromosomal POX5 gene and the chromosomal POX4A and POX4B gene are disrupted. The feed is obtained by fermenting with a microorganism in a culture medium comprising a N-source, an organic substrate and optionally a co-substrate. (25pp)

L86 ANSWER 3 OF 26 MEDLINE on STN DUPLICATE 3
AB The synthesis of dicarboxylic acids (DCAs) in *Candida tropicalis* is thought to be induced by a decrease in fatty acyl-CoA-oxidase activity. However, in the present study we demonstrate that repression of the POX4 gene, encoding fatty acyl-CoA oxidase, does not directly lead to high-level production of DCAs. No

fatty acyl-CoA-oxidase activity was detected if the POX4 gene of *C. tropicalis* strain 1098 (wild-type strain) was disrupted. Furthermore, introduction of the POX4 gene from *C. tropicalis* strain M1210A3, which is a mutant derived from strain 1098 and is used as an industrial DCA-producing strain, still exhibited low-level fatty acyl-CoA-oxidase activity. Nevertheless, production of DCA was not observed in either case. Furthermore, the increase in acyl-CoA-oxidase activity by expression of the POX4 gene in strain M1210A3 did not reduce high-level production of DCA. These results suggest that alterations in acyl-CoA-oxidase activity are not necessarily related to production of DCA in industrial DCA-producing *C. tropicalis* M1210A3.

L86 ANSWER 7 OF 26 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5

AB Aliphatic polycarboxylic acids are made by a process comprising the steps of: (1) fermenting a β -oxidation-blocked *Candida tropicalis* cell wherein both copies of the chromosomal POX5 gene and the chromosomal POX4A and POX4B genes are disrupted in a culture medium comprised of a N source, an organic substrate, and a cosubstrate wherein the substrate is an unsatd. aliphatic compound having ≥ 1 internal C=C double bond and ≥ 1 terminal Me group, a terminal -COOH group, and/or a terminal functional group which is oxidizable to a -COOH group by biooxidn. and (2) reacting the product of step (1) with an oxidizing agent to produce one or more polycarboxylic acids.

L86 ANSWER 13 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB *Candida tropicalis* can readily degrade fatty acids via beta-oxidation. However, some strains can produce small amounts of dicarboxylic acids via a competing omega-oxidation pathway. Attempts to improve dicarboxylic acid production by classical mutagenesis have not been successful in the past. A genetic transformation system was tested for sequential disruption of the POX4 and POX 5 genes encoding 2 acyl-CoA-oxidase isozymes which catalyze the first reaction step in the beta-oxidation pathway. The resultant strain produced high levels of dicarboxylic acids from either long-chain alkanes (C12-14) or saturated and unsaturated fatty acids (C14-2) without the problems of substrate loss, chain shortening and internal chain modifications typically encountered with classically mutated strains. In addition, amplification of the genes encoding the cytochrome-P450 and reductase components of the rate-limiting step of the omega-oxidation pathway resulted in a 25-30% improvement in productivity. (0 ref)

L86 ANSWER 14 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB Omega-hydroxylase activity in *Candida tropicalis* is increased by increasing the gene dosage of at least 1 cytochrome-P450 gene. A new, transformed *C. tropicalis* strain contains at least 1 copy of the P450-ALK1 or P450-ALK2 and/or P450-RED genes, with disruption of host chromosomal POX4A, POX4B and/or POX5 genes. A new process for increasing the production rate of a pure long-chain alpha,omega-dicarboxylic acid comprises growth of the new strains in a culture medium containing an N-source, an organic substrate and a co-substrate. The *C. tropicalis* strain may be SU-2, H41, H41B, H43, H51, H53, H45, H534, H534B, H435 or H5343. The initial pH of the culture is 6.5, and is raised to and maintained at 8.3-8.8 after maximal cell density is reached. The substrate concentration is 10-20 g/l, and the co-substrate is added at 1.5-1.75 g/hr.1 alkaline medium. The substrate is a 4-22C alkane or ester, or a 12-18C fatty acid, e.g. dodecane, tridecane, tetradecane, methyl myristate, methyl palmitate, methyl palmitoleate, methyl oleate, oleic acid, linoleic acid, linolenic acid, palmitoleic acid, palmitic acid or myristic acid. (52pp)

L49 ANSWER 19 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

AB The process comprises culturing *Candida tropicalis* mutant PF-UV-56 in culture medium, fermenting in fermentation medium at 29-32°, pH 4.5-6.5, and 0.01-0.1 MPa for 12-20 h, regulating pH to 7.0, fermenting under complementing or adding batchedly 5-15 g/L C1-3 carboxylate or alc. as the second C-source before 1-3 h of production of long-chain dicarboxylic acid and controlling alkane content at 10-15%, and separating The *C. tropicalis* mutant PF-UV-56 does not use alkane as the C source. The culture medium is composed of sucrose 10-40, phosphate 2- 10, yeast extract 1-3, corn slurry 1-3, urea 1-4, NaCl 0.5-1.5, MgSO₄ 7H₂O 0.5-3 g/L, vitamin B1 20-200 ppm, and C12- 15 alkane 0-50 mL/L. The fermentation medium is composed of sucrose 20-40, phosphate 2-10, yeast extract 0.5-2, corn slurry 0.5-2, urea 1-2, NaCl 0.5-2.5, MgSO₄ 7H₂O 0.5-2, ammonium salt 2-8, C1-3 carboxylate or alc. 5-15 g/L, vitamin B1 20-200 ppm, and C12-15 alkane 50-350 mL/L.

L49 ANSWER 38 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB A new microorganism co-culture method for the production of long-chain alpha,omega-dicarboxylic acid, especially dodecadiatomic acid (DC12), production is claimed. *Candida tropicalis* is inoculated into a culture medium, whose matrix is n-alkanes containing 11-18C. The pH is controlled to 6.0-6.8 for thallus growth as a priority, and diatomic acids are supplied by limited output. When the optical density of thallus growth at an optical density (X30, 620 nm) reaches 0.2 and the pH is controlled at 7.0-7.8, different diatomic acids with the same chain length as the matrix are produced in high yield. After incubation for 40 hr, when the acid output reaches 33.3 g/l, then the output of acid is transferred for fermentation as a priority and can reach 145 g/l in 130 hr.

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	22.18	371.17
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.75	-1.50

STN INTERNATIONAL LOGOFF AT 13:49:05 ON 28 JUN 2006